



# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

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इस भाग में भिन्न पुस्तकों की जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2  
[PART III—SECTION 2]

टेलेन्ट और डिजाइन द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएँ और नोटिस  
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE

PATENTS AND DESIGNS

Calcutta the 30th October 1993

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Lower Parel (West), Bombay-400 013.

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Telegraphic address "PATOFFICE".

Patent Office Branch,  
Unit No. 401 to 403, III Floor,  
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New Delhi-110 005.

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The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office (Head Office),  
"NIZAM PALACE", 2nd M.S.O Building,  
5th, 6th and 7th Floor,  
234/4, Acharya Jagadish Bose Road,  
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

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पेटेंट कार्यालय  
एकत्र तथा अभिकल्प  
कलकत्ता, विनांक 30 अक्टूबर 1993

पेटेंट कार्यालय के कार्यालयों के पते एवं अधिकारी

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ते में अवस्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शास्त्र कार्यालय हैं, जिनके प्राविधिक अधिकारी जॉन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शास्त्र, टोडी हस्टिंग्स,  
दीसरा तल, लोअर परले (पश्चिम),  
बम्बई-400013।

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य  
क्षेत्र एवं संघ शासित क्षेत्र गोआ, वर्मन तथा  
दीक्ष एवं दादरा और नगर हवेली।

तार पता—“पेटेंटफिल्म”

पेटेंट कार्यालय शास्त्र,  
एकक सं. 401 से 405, नीमरा तल,  
मराठालिका बाजार भवन,  
सरस्वती मार्ग, करोल बाग,  
बम्बई-110005।

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर,  
रंजाड़, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों  
एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली।

तार पता—“पेटेंटफिल्म”

CORRIGENDA

In the Gazette of India Part III, Section 2.

(a) Dated the 14th March, 1992, page-317, Col. 2, for Patent No. 753/Mas/87 filed on 19th October, 1987 read the applicants as THE ENGLISH ELECTRIC COMPANY OF INDIA LIMITED.

(b) Dated the 28th March, 1992, page-385, Col. 2, for application for Patent No. 121/Del/87 filed on 13th February 1987 read the accepted No. as 170464 instead the 170264.

(c) In page 392, col. 2, for application for Patent No. 119/Bom/89 filed on May 5, 1989 read the applicant as ELCOR CORPORATION instead of ELLOR CORPORATION.

(d) In page-393, col 2, for application for Patent No. 147/Bom/89 filed on 7th June, 1989 read the applicants as BARMAG AG, instead of BARMAG A.C.

(e) Dated the 4th April 1992, page-416, col. 2, for application for Patent No. 906/Mas/87 filed on 17th December, 1987 read the accepted No. as 170514.

(f) In page-418, col. 1 for application for Patent No. 935/Mas/87 filed on 28th December, 1987 read the applicants as BASF AKTIENGESELLSCHAFT instead of BASF AKTIENGESELLSCHAFT.

(g) Dated the 11th April, 1992, page-461, col. 2, for application for Patent No. 269/Mas/90 filed on 11th April, 1990 read the applicants as TAKEDA CHEMICAL

पेटेंट कार्यालय शास्त्र,  
61, बालाजाह एवं,  
मद्रास-600002।

बान्धु प्रदेश, कर्नाटक, कर्ल, तमिलनाडु राज्य  
क्षेत्र एवं संघ शासित क्षेत्र पांडुचेरी, लक्षद्वीप,  
मिनिकाय तथा एमिनिदिवि द्वीप।

तार पता—“पेटेंटफिल्म”

पेटेंट कार्यालय (प्रधान कार्यालय),  
निजाम पैलेस, विवतीय बहुतलीय कार्यालय,  
भवन 5, 6 तथा 7वां तल,  
234/4, बाबार्य जगदीश बोस रोड,  
कलकत्ता-700020।

भारत का अवस्थेष क्षेत्र।

तार पता—“पेटेंटफिल्म”

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन-पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे।

लक्ष्य :—लक्ष्यों की अदायगी या तो नकद की आएगी अथवा उपयुक्त कार्यालय में नियंत्रक को भूगतान योग्य भनावेश अथवा डाक बाबौदा या जाहां उपयुक्त कार्यालय अवस्थित है; उस स्थान के अनुसूचित बैंक से नियंत्रक को भूगतान योग्य बैंक ड्राफ्ट अथवा बैंक बुवारा की जा सकती है।

INDUSTRIES, LTD., instead of TAKEDA CHEMICAL INDUSTRIES LTD.

(h) Dated the 18th April, 1992, page-482, col. 1, for application for Patent No. 1142/Del/87 filed on 29th December, 1987 read the applicants as SAMHWA ELECTRIC INDUSTRIAL Co. instead of SAMHWA ELECTIR INDUSTRIAL Co.

(i) Dated the 9th May, 1992, page-601, col. 2, for application for Patent No. 516/CAL/88 filed on 24th June, 1988 read the First applicants as MITSUI TOATSU CHEMICALS INCORPORATED instead of MITSUI OATSU CHEMICALS INCORPORATED.

(j) In page 605, col. 2, for application for Patent No. 126/CAL/89 filed on 13th February, 1989 read the applicants AEROSPATIALE SOCIETE NATIONALE INDUSTRIELLE instead of AEROSPATIALE SOCIETE NATIONALE NATIONALE INDUSTRIELLE.

(k) In page-611, col. 1, for application for Patent No. 447/Del/87 filed on 25th May, 1987 read the accepted No. as 170736 instead of 710736.

(l) In page-609, col. 2, for application for Patent No. 427/Del/87 filed on 15th May, 1987 read the applicants as THE PIFESSY COMPANY PLC. instead of THE POLESSEY COMPANY PLC.

(m) Dated the 6th June, 1992, page-694, col. 1, for application for Patent No. 193/Mas/88 filed on 25th March, 1988 read the applicants as HYDRO-QUEBEC.

APPLICATIONS FOR PATENTS FILED AT THE HEAD

OFFICE

AT 234/4, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-20.

The dates shown in the crescent brackets are the dates claimed under section-135, of the patents act, 1970.

Calcutta-20, the 7th September 1993

519/Cal/93 Lankalapalli Gopala Rao. Double Filament, Multi-watt G L S Lamp.

520/Cal/93 Dr. Subrata Pal, Dr. A. Pal & Dr. T. K. Pal. Hydroxyapatite Coated Titanium Dental Implant for single tooth replacement.

521/Cal/93 Norton Healthcare Limited. Medicament Dispensing device. Convention No. 9218937.2; filed on 8-9-1993. Great Britain.

522/Cal/93 Norton Healthcare Limited. Medicament Dispensing Device. (Convention Nos. 9218937.2, 9222389.7; filed on 8-9-92 and 4-12-92; Great Britain).

08th September, 1993

523/Cal/93 Johann Berger. Textile Hollow Body Method of producing it.

524/Cal/93 (1) Robert Douglas, (2) Benjamin Earl Bulkley, (3) Dale Eugene Laplante, (4) James Martin Anderton Askey, (5) Alan Granville Jones, and (6) Charles Earl Cooper. Electronic Fuel Injection system for large compression ignition engine.

525/Cal/93 Henri E. Rosen. Shoes capable of accommodating and fitting different foot widths. (divided out of No. 669/Cal/89; antedated to 16-8-1989).

526/Cal/93 Tatsuo Ono. Form Panel.

527/Cal/93 Brojo Renu Ganguly. Hi Life Railway Turnout.

528/Cal/93 Brojo Renu Ganguly. Hi Life Railway Turnout.

10th September, 1993

529/Cal/93 Santanu Roy. A Novel Process for making polymeric intermediates and wood-like products made therefrom.

530/Cal/93 Commonwealth Scientific and Industrial Research Organisation. Method for the storage of Entomopathogenic Nematodes. (Convention No. PL4791/92 filed on 10-9-92. Australia.)

531/Cal/93 Hamatech Halbleiter-Maschinbau Und Technologie GmbH. Device for coating substrates in semiconductor production.

532/Cal/93 Sri Usha Shankar Bhattacharya. A 3-Step control, higher power wick stove.

Applications for Patents filed in the Patent Office Branch at Todi Estates, 33rd Floor, Sun Mill Compound, Lower Parel (W), Bombay-13.

10th August 1993

246/Bom/93 Taraprakash Prabhakar Vartak. A process for higher recovery of sugar from sugarcane.

11th August 1993

247/Bom/93 Dr. Rashmikant Shantilal Parikh. Improvement in or related to setting of polyester fibres, filaments fabrics of 100% polyester or its blends with natural and/or other synthetic fibres.

12th August 1993

248/Bom/93 Nichrome Metal Works Pvt. Ltd. A device for delivering a pre-determined continuous length chain of pouch means.

249/Bom/93 Nevrekar Venkatesh R. Self-aligning sealing member for valve assembly.

13th August 1993

250/Bom/93 Scitech Centres. A process for preparing lyophilised rumen liquor capsule for ruminant animals.

16th August 1993

251/Bom/93 Ahmedabad Textile Industry's Research Association. A cell type air humidification system for industrial purpose.

252/Bom/93 Prashant Manohar Oak. A device to control upper and lower levels in an ash slurry tank.

253/Bom/93 Hindustan Lever Ltd. Polymeric anticalculus agents.

254/Bom/93 Trigon Metal Sections Pvt. Ltd. Structural angles for making structures.

17th August 1993

255/Bom/93 Harivadan Lallubhai Parikh Voltage stabilizer.

256/Bom/93 Harivadan Lallubhai Parikh. Electronic circuit for automatic voltage stabilizer.

18th August 1993

257/Bom/93 Augustine Henry Shelke. Improved table and pedestal fan.

258/Bom/93 Mrs. Ashruffali Aziz Dharamsey & Others. Pilfer Proof display device for compact discs/laser vision discs audio and video tapes and the like.

19th August 1993

259/Bom/93 Praj Industries Ltd. A process to carry out continuous ethanol fermentation using flocculating yeast and yeast recycle involving acidification of the yeast cream for controlling bacterial contamination and its activity before yeast cream recycle simultaneously.

260/Bom/93 Ashok Dongre. A selective message communication apparatus.

23rd August 1993

261/Bom/93 Rathin Sinha. A cutting and gripping device.

24th August 1993

262/Bom/93 Govind Sadashive Bapat. The way of constructing the body of a tanker-cum-truck.

263/Bom/93 Prof. Dr. Heeresh Chandra. Chandra R. shutters.

264/Bom/93 Hindustan Lever Ltd. U.K. Priority dt. 25-8-92 & 5-11-92. Liquid cleaning compositions comprising primary alkyl sulphate and non-ionic surfactants.

265/Bom/93 Raymon Nogueira & others. Equipments of filtration.

25th August 1993

266/Bom/93 Scitech Centre. A herbal based galactogogue capsule for dairy animals and a process for preparing the same.

267/Bom/93 Scitech Centre. A feed supplement capsule for improving quality and quantity of milk and general condition of ruminant animals and a process for preparing the same.

268/Bom/93 Rama Vishwakarma & others. Pawan Automotive Engine.

269/Bom/93 Kemp & Company Ltd. A mechanical height adjustment device for chair.

26th August 1993

270/Bom/93 Sanjaya Maniktala & Others. Protection for electronic ballasts for gas discharge/fluorescent lamps

271/Bom/93 Sanjava Maniktala & others. Improved switching regulator.

272/Bom/93 Das Ram Krishna. Theory, working mechanism & designing of Ramjantrao.

27 August 1993

2/3/Bom/93 Mahendra Vasant Sapre. A device to accomplish infinitely variable rate of actuation in the electrically driven servo controlled actuators.

Applications for Patents filed at the Patent Office Branch, 61, Wallajah Road, Madras-600 0002.

30th August 1993

610/Mas/93 Ravindranath Damodaran. Integrated personal satellite TV system.

611/Mas/93 Seshagiri Rao B. Y. Osmotic pressure pumping process.

612/Mas/93 S. V. Murthy. Automobile wind shield automatic wiping system.

613/Mas/93 Davstar California, Inc. Integral centrifuge tube and specimen slide.

614/Mas/93 Ernest Robert Bodnar. Roll formed metal member with reinforcement indentations. (September 2, 1992; Canada).

1st September 1993

615/Mas/93 G. Johnson. Johnson thief detector for vehicles.

616/Mas/93 G. Johnson. Johnson vertical meter for vehicles.

617/Mas/93 Liquid Carbonic Corporation. Method and apparatus for determining the solid fraction of a stored cryogenic refrigeration system.

618/Mas/93 Rosemount Inc. Vortex Flometer.

619/Mas/93 Klockner-Humboldt-Deutz AG. Multiengine system with supercharged diesel internal-combustion engines.

620/Mas/93 Takata Corporation. Structure for mounting a lid of an air bag device for use in a passenger's seat.

621/Mas/93 Mac Lean-Fogg Company. Insulator structure and method of construction.

622/Mas/93 Narayana Thevar Sabapathy. A device for automatic operation of clutch in automobiles having conventional gear changing mechanism.

623/Mas 93 Andre Viozat, S. Lalitha & K. Jatalakshmi. A device for automatic control of the operation of a furnace.

2nd September 1993

624/Mas/93 Multiclip Company Limited. Securing Device. (September 4, 1992; United Kingdom).

625/Mas/93 Palitex Project-Company GmbH. Multi-station textile machine, especially double twisting machine or cabling machine, with sequentially arranged spool containers.

3rd September 1993

626/Mas/93 P. Radhakrishnan. Thermal efficient internal combustion engine.

627/Mas/93 Monsanto Company. Process for preparing isocyanates.

628/Mas/93 Monsanto Company. Preparation of urethane and carbonate products.

629/Mas/93 Andries Johannes Du Preez and Smuts Du Preez. Building construction and building element for use therewith.

630/Mas/93 N. V. Raychem S. A. Environmental sealing. (September 4, 1992; Great Britain).

#### ALTERATION OF DATE UNDER SECTION-16

Patent No. 172650 (33/M/91) Ante-dated to 7th April, 1987.

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, given notice to the Controller of Patents at the appropriate office on the prescribed Form 15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta or the appropriate Branch Office on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by two to get the charges as the copying charges per page are Rs. 2/-.

#### स्थीकृत सम्पूर्ण विनिर्देश

एनावृद्धिकारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेट अनुदान का विरोध करने के इच्छुक कोइर्ष व्यक्ति, इसके निर्गम की तिथि से चार (4) महीने या अधिक एसी अवधि औ उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेट नियम, 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकस्व की उपयुक्त कार्यालय को एसे विरोध की सूचना विहित प्रपत्र 15 पर वे सकते हैं। विरोध सम्बन्धी लिखित बताया, उक्त सूचना के साथ अथवा पेटेट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संबंध में नीचे दिए गये कार्यक्रम, भारतीय वर्गकरण तथा अंतरराष्ट्रीय वर्गकरण के कनूलूप हैं।"

स्थानक (चित्र आरेखों) की फोटो प्रतियां यदि कोइर्ष हों, उस साथ विनिर्देशों की टाईकित अथवा फोटो प्रतियों की आपूर्ति पेटेट कार्यालय, कलकत्ता अथवा उपयुक्त शास्त्र कार्यालय द्वारा विहित लिप्यान्तरण प्रभार जिसे उक्त कार्यालय से पत्र-घराहार द्वारा सुनिश्चित करते के उपर्यंत उसकी वायायगी पर की जा सकती है। विनिर्देश की एष्ट माल्या के साथ प्रत्येक स्थीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 2 से गुणा करके, (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 2/- रु. है) फोटो लिप्यान्तरण प्रभार का परिस्करन किया जा सकता है।

Ind. Cl. : 32E. [IX(I)] 155 F2 (XXIII) 172621

Int. Cl. : C08J 5/00, 5/12.

**A PROCESS FOR THE PREPARATION OF AN ARTICLE COATED WITH A POLYMERIC MATERIAL.**

Applicant : EXXON RESEARCH AND ENGINEERING COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA OF 180 PARK AVENUE, FLORHAM PARK, NEW JERSEY 07932, UNITED STATES OF AMERICA.

Inventor(s) : PACIFICO VIERNES MANALASTAS, WARREN ALAN THALER, EVELYN NOBLES DRAKE & ISRAEL SZABSAI PASTERNAK.

Application for Patent No. 370/Del/87 filed on 28 April 1987.

Appropriate Office for opposition proceedings (Rule 4, Patent Rule 1972), Patent Office Branch New Delhi-5.

**12 Claims**

A process for preparing article such as herein described said process comprises coating at least one surface of substrate of the kind such as herein described with a polymeric coating having a thickness of 1 to 100 micrometers said polymeric coating comprising a neutralized sulfonated polymer or a sulfonated polymer capable of neutralised in situ such as herein described and having a sulfonate content of 4 to 200 meq. per 100 grams of said neutralized sulfonated polymer.

Compl. Specn. 19 pages

Drgs. 1 sheet

Ind. Cl. : 40 H 80 K

172622

Int. Cl. : B01D 13/04.

**A PROCESS FOR PREPARING A COMPOSITE MEMBRANES FOR ENHANCED FLUID SEPARATION AND THE MEMBRANES PREPARED BY SUCH PROCESS.**

Applicant : UNION CARBIDE CORPORATION, MANUFACTURERS, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA; WITH OFFICES AT : OLD RIDGEBURY ROAD, DANBURY, STATES OF CONNECTICUT, 06817, UNITED STATES OF AMERICA.

Inventors : SAMUEL CHEW WILLIAMS, BENJAMIN BIKSON, JOYCE KATZ NELSON, ROBERT DOUGLAS BURCHESKY.

Application for Patent No. 285/Del/88 filed on 7 April 1988.

Appropriate office for opposition proceeding (Rule 4, Patent Rule 1972), Patent Office Branch, New Delhi-5.

**17 Claims**

A process for preparing a composite membrane capable of selectively permeating a more readily permeable component of a fluid mixture in gas, pervaporation or perstraction separation operations and having a separation layer that determines the separation characteristics of the membrane and a porous support layer, the process comprising :

(a) coating the support layer with a separation layer of membrane material, said support layer containing a controlled amount of liquid in the range of from 10% to 90% by weight of the liquid present in said support layer in substantially wet form, said liquid being a solvent or non-solvent for the material of the separation layer; and

(b) drying said separation layer on the support layer, the presence of said liquid in the support layer precluding any appreciable penetration of the membrane material into the pores of said support layer, the separation layer thereby being of a non-occlusive nature and potentially of an asymmetric nature, with a less dense region adjacent to the outer surface of the support layer and a more dense outer region

adjacent to the outer surface on said separation layer, whereby the composite membrane exhibits essentially the separation characteristics of the membrane layer while achieving an advantageous combination of selectivity and permeability for the desired separation of said fluid mixture.

Compl. Specn. 32 pages

Ind. Cl. : 32-B [IX (I)]

172623

Int. Cl. : C07C, 5/22.

**PROCESS FOR UPGRADING THE OCTANE NUMBER OF C<sub>5</sub> AND C<sub>6</sub> COMPONENTS OF A FEEDSTREAM CONTAINING C<sub>5</sub>, C<sub>6</sub> AND C<sub>7</sub> HYDROCARBONS.**

Applicant : UOP INC., A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE IN THE UNITED STATES OF AMERICA, WITH ITS PRINCIPAL OFFICE LOCATED AT 25 EAST ALGONQUIN ROAD, DES PLAINES, ILLINOIS, UNITED STATES OF AMERICA.

Inventor : FREDERICK MICHAEL HIBBS.

Application for Patent No. 312/Del/88 filed on 12 April 1988.

Appropriate Office for opposition proceedings (Rule 4, Patent Rule 1972), Patent Office Branch, New Delhi-5.

**5 Claims**

A process for upgrading the octane number of C<sub>5</sub> and C<sub>6</sub> components of a feedstream containing C<sub>5</sub>, C<sub>6</sub> and C<sub>7</sub> hydrocarbons, said process comprising :

- (a) passing said feedstream into a fractionation zone and separating said feedstream therein into higher and lower boiling components;
- (b) withdrawing from a lower portion of said fractionation zone a reforming input stream comprising C<sub>7</sub> plus hydrocarbons and passing said reforming input stream to a reforming zone;
- (c) withdrawing a sidecut stream comprising normal hexane and lower boiling hydrocarbons from said fractionation zone and passing said sidecut stream to an isomerisation zone;
- (d) contacting said sidecut stream in said isomerisation zone with a Group VIII noble metal catalyst to produce an octane enhanced isomerisation zone effluent stream rich in C<sub>5</sub> and C<sub>6</sub> isoparaffin and lower boiling hydrocarbons;
- (e) recycling at least a portion of said octane enhanced isomerisation zone effluent stream to said fractionation zone; and
- (f) withdrawing from said fractionation zone a high octane overhead product stream comprising C<sub>5</sub> and C<sub>6</sub> isoparaffin and lower boiling hydrocarbons.

Compl. Specn. 30 pages

Drgs. 1 Sheet

Ind. Cl. : 32E

172624

Int. Cl. : B29D 7/01, C07J 5/18.

**A PROCESS FOR THE PRODUCTION OF ORIENTED POLYOLEFINE FILMS.**

Applicant : EXXON CHEMICAL PATENTS INC., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA OF 1900 EAST LINDEN AVENUE, LINDEN, NEW JERSEY 07036, UNITED STATES OF AMERICA.

Inventor : BERNARD LOUIS LUC BOSSAERT.

Application for Patent No. 332/Del/88 filed on 19 April 1988.

Convention application filed on 21 April 1987/8709446/U.K.

Appropriate office for opposition proceeding (Rule 4, Patent Rule 1972), Patent Office Branch, New Delhi-5.

### 5 Claims

A process for the production of oriented polyolefin films by blending and extruding polyolefin and a rosin or resin, preferably hydrogenated, characterised by first blending under high shear conditions, a polyolefin and a rosin or resin to form a concentrate containing from 50 to 80 wt% of resin or rosin and secondly additional polyolefin is blended under high shear conditions with the concentrate in a melt extrusion step to form a film containing a reduced proportion of resin or rosin of from 5 to 30 wt %, the blending shear in the first step being higher than in the second step.

Compl. Specn. 22 pages.

Ind. Cl. : 98 I

172625

Int. Cl. : F 24 J 2/10, B 32 B 17/06, C03C 17/40.

### A TRANSPARENT SHEET HAVING A LOW REFLECTANCE COATING AND A METHOD OF MAKING A TRANSPARENT COATED SHEET.

Applicant : PPG INDUSTRIES, INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF PENNSYLVANIA, UNITED STATES OF AMERICA, OF ONE PPG PLACE, PITTSBURGH 22, STATE OF PENNSYLVANIA 15272, UNITED STATES OF AMERICA.

Inventor : FRANK HOWARD GILLERY.

Applicant for Patent No. 432/Del/1988 filed on 16 May 1988.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972 Patent Office Branch, New Delhi-110 005).

### Claims 16

A transparent sheet for the reflectance of solar energy comprising :

- (a) a transparent substrate;
- (b) a transparent film of a metal alloy oxide at a thickness which exhibits color deposited on a surface of said substrate; and
- (c) a neutral low reflectance transparent metal alloy film deposited on said metal oxide film said films in combination providing a coated article which low transmittance and low reflectance.

A method of making a transparent sheet as claimed in any one of the preceding claims, wherein said method comprises sputtering onto a surface of a sheet of transparent glass or similar material a first transparent coating of the metal alloy oxide which exhibits color; and sputtering over said metal alloy oxide film a low reflectance transparent metal alloy film.

(Compl. Specn. 10 pages.)

Ind. Cl. : 127 E

172626.

Int. Cl. : H02K 7/10.

### EPICYCLOIDAL GEARBOX WITHOUT BEARINGS FOR SUPPORTING THE SEPARATE FITTED OUTLET SHAFT.

Applicant : L B TRANSMISSIONI MECCANICHE S R L. OF VIA BAZZANE LIA, CALDERARA DI RENO, BOLOGNA, ITALY, AN ITALIAN COMPANY.

Inventor : PAOLO CHINNI.

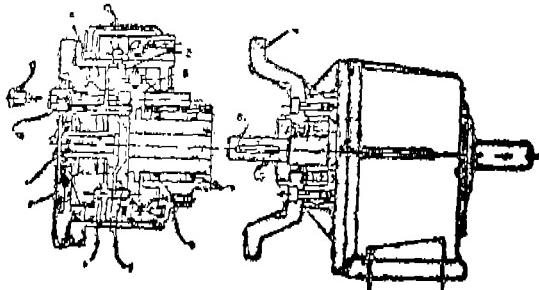
Application for Patent No. 454/Del/88 filed on 23 May 1988.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972 Patent Office Branch, New Delhi-110 005).

### 5 Claims

Epicycloidal gearbox without bearings for supporting the separate fitted outlet shaft, the gearbox having an independently fitted variator assembly complete with oil and ready use and for direct coupling on a reducer with outjutting male shaft also separately mounted, the variator comprising a driving disk (1) in engagement with a packet of Belleville washers (2) having therebetween an assembly of satellite gears (3) rolling on outer rings (4 and 5), said satellite gears in engagement with bushes (6) and a satellite holding disk (7), characterised by said satellite holding disk (7) being provided with an outlet quill for releasably coupling with the shaft (9) of the reducer without the necessity to dismantle the entire gearbox said releasable coupling being a tang (8) on the shaft (9) whereby the satellite holding disk (7) is keyed to the shaft (9) of the reducer and is able to be quickly released therefrom, a positioning screw (12) being provided on the variator body to hold the satellite holding disk (7) to enable quick alignment thereof with the reducer shaft (9), a pivot (10) being provided on said variator for adjustment of speed through a control screw.

Fig. 1



(Compl. Specn 8 pages.)

Drgn. 1 sheet.)

Ind. Cl. : 155 F<sub>2</sub>

172627.

Int. Cl. : D 06M 13/44.

### PROCESS FOR A FLAME RETARDANT TREATMENT OF A SUBSTRATE.

Applicant : ALBRIGHT & WILSON LIMITED, A BRITISH COMPANY, OF 210-222 HAGLEY ROAD WEST, OLD-BURY, WARLEY, WEST MIDLANDS, ENGLAND.

Inventor : GEOFFREY WILLIAM SMITH.

Application for Patent No. 493/Del/1988 filed on 3 June 1988.

Convention date 5-6-1987/8713224/U.K.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972 Patent Office Branch, New Delhi-110 005).

### Claims 13

A process for the flame-retardant treatment of a substrate comprising cellulosic fibres and fibres co-blendable therewith, and process consisting essentially of the following steps :

- (a) impregnating said substrate with an aqueous solution of
  - (i) a tetrakis (hydroxyorgano) phosphonium compound; or
  - (ii) a water-soluble condensate of (i) with an organic nitrogen-containing compound; or

(iii) a mixture of (i) with said organic nitrogen-containing compound;

to provide an impregnated substrate carrying from 5% to 20% (by weight of the original weight of said substrate) of said tetrakis (hydroxyorgano) phosphonium ion (hereinafter referred to as "THP ion");

- (b) drying said impregnated substrate;
  - (c) treating said dried substrate (b) with ammonia to cure said tetrakis (hydroxyorgano) compound to give a cured substrate;
  - (d) repeating steps (a), (b) and (c) above to give a twice-cured substrate.

(Compl. Specn. 17 pages.)

Ind. Cl. : 206 A 172628.

Int. Cl. : HO1Q 15/00, 15/18.

## A PARABOLIC ANTENNA REFLECTOR.

Applicant : SPARBANKEN SYD, OF P.O. BOX 252 S-  
271 00 YSTAD SWEDEN, A SWEDISH BANK DULY  
ORGANISED UNDER THE LAWS OF SWEDEN.

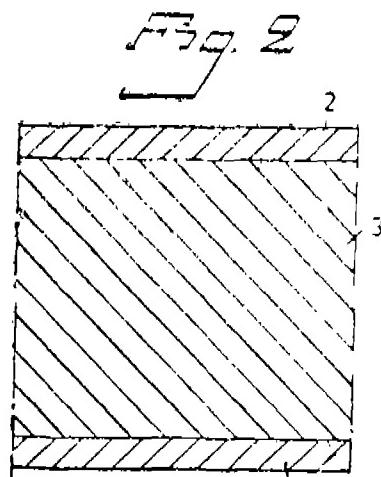
Inventor : REGIS GUSTAFSSON.

Application for Patent No. 503/Del/88 filed on 7 June  
1988.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**Claims 4**

A parabolic antenna reflector (1) which comprises a laminate formed from two layers (2, 4) of electrically well-conducting metal and an intermediate layer of plastics material of essentially uniform thickness and of low electrical conductivity, characterised in that the thickness and dielectric constant of the plastic layer are such that, at the operational frequency of the antenna, said reflector (1) forms a decoupling or by-pass capacitor (6) with a low impedance to earth (7) to attendantly reduce undesirable radiation side lobes.



(Compl. Specn. 7 pages.)

Drgn. 1 sheet.)

Inventor : BERNARD FOURNIER.

Application for Patent No. 539/Del/88 filed on 21 June  
1988.

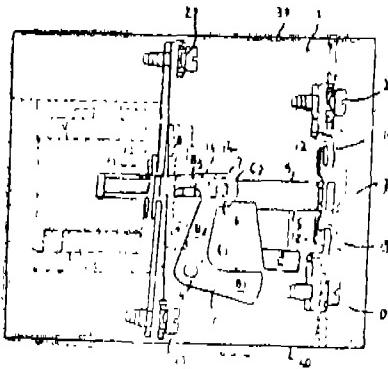
Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**Claims 8**

A device rendering contactors electrically and mechanically inoperative, said device comprising:

- a case (1) having two opposite parallel front walls, spaced apart from each other and, at least two opposite sidewalls which extend in planes substantially perpendicular to said front walls, said case (1) being mountable between two contactors disposed side by side;
  - substantially coaxial apertures (14, 14a) located in the central region of said two front walls,
  - first and second movement take-off means (6, 7) for respectively coupling with the mobile assembly of said two contactors through said substantially coaxial apertures (14, 14a) each of said movement take-off means (6, 7) being movable between two positions corresponding respectively to the work position and the rest position of the contactor with which it is associated;
  - mobile members (2, 3) connected to and driven by said movement take-off means (14, 14a) for providing reciprocal inoperativeness, said mobile members (2, 3) having a travel distance such that the passage of one of the movement take-off (14, 14a) to the work position brings the element which corresponds with it to a position blocking the passage of the other movement take-off to the work position; and
  - at least one input connection member (19, 21) mounted on one (40) of said sidewalls of said case, at least one output connection member (20, 22) mounted on the other said sidewall (39) casing.
  - two switch devices ( $I_1$ ,  $I_2$ ) each comprising at least one pair of fixed contacts (15, 16-17, 18) connected respectively by connecting conductors to said at least one input connection member (19, 21) and said at least one output connection member (20, 22), and a mobile contact member (12) actuated by a corresponding mobile member providing inoperativeness,
  - said switch devices ( $I_1$ ,  $I_2$ ), along with their corresponding said input and output connection members (19, 21, 20, 22) as well as with the corresponding connection conductors (12, 13) forming first and second through current lines, without crossing inside of the case (1) and directed transversely with respect to said sidewalls of the case (1).

FIG. 1



(Compl. Specn. 14 pages.

Drgn. 4 sheets.)

Ind. Cl. : 14 A<sub>8</sub>

172630.

Int. Cl.<sup>4</sup> : H01M 4/04, 8/00, 8/22.**AIR CATHODES.**

Applicant : ALCAN INTERNATIONAL LIMITED, OF 1188 SHERBROOKE STREET, WEST, MONTREAL, QUEBEC, CANADA H3A 3G2, A COMPANY ORGANISED UNDER THE LAWS OF CANADA.

Inventor : WILLIAM HENRY HOGE.

Application for Patent No. 568/Del/1988 filed on 5 July 1988.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**Claims 8**

An air cathode comprising a sheetlike laminate (16) formed of layers comprising first (34) and second (38) layers having opposed major surfaces (17, 18) respectively exposed for contact with a liquid electrolyte such as herein described and with air, said layers also having facing major surfaces, with said first layer (34) comprising a nonwoven fibrous web such as herein described impregnated with a mixture of carbon particles and an adhesive polymer such as herein described for holding the carbon particles in the web and said second layer (38) being permeable to air but not to said liquid electrolyte; and current-collecting means (36) in contact with said first layer (34) and connectable to external electrical circuitry; said facing major surfaces of said first and second layers (34, 38) being bonded together by heat seal polymeric bonding material (40) applied on said facing major surfaces in a pattern to provide an array or network of areas free of said bonding material extending substantially uniformly over said facing major surfaces.

(Compl. Specn. 27 pages.)

Drgn. 1 sheet.)

Ind. Cl. : 164D [XXVII(3)], 152 E [XII(2)] 172631.

Int. Cl.<sup>4</sup> : E01C 5/20.**A COMPOSITION FOR USE AS SUBSTITUTE SOIL MATERIAL.**

Applicant : EN-TOUT-CAS PLC, A BRITISH COMPANY, OF SYSTON, LEICESTER, ENGLAND.

Inventors : PAUL HAWKINS AND JOHN DAVID DACHTLER.

Application for Patent No. 1125/Del/86 filed on 22nd December, 1986.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**Claims 10**

A composition for use as substitute soil material consisting of a mixture of particulars or granular mineral material comprising sand, a synthetic polymeric material of the kind such as herein described and an organic material of the kind such as herein described having a viscosity such that it is substantially non-fluid at ambient temperatures so as to produce an inert, discrete material permanently capable of being raked when laid in a layer upon a substrate, the amount of said polymeric material and said organic material together being from 3.8 to 6.5 parts per 100 parts of said particular or granular material and the amount of polymeric material being from 10 to 20 parts per 80 to 90 parts of said organic material.

(Compl. Specn. 9 pages.)

Ind. Cl. : 40 B.

172632.

Int. Cl.<sup>4</sup> : B01J 23/50.**A PROCESS FOR PREPARING CATALYSTS SUITABLE FOR OXIDIZING ETHYLENE WITH MOLECULAR OXYGEN TO ETHYLENE OXIDE.**

Applicant : SCIENTIFIC DESIGN COMPANY, INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 49 INDUSTRIAL AVENUE, LITTLE FERRY, NEW JERSEY 07643-1901, U.S.A.

Inventors : MITCHELL BECKER &amp; KINTOKEN LIU.

Application for Patent No. 155/Del/87 filed on 23 February 1987.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**Claims 13**

A process for preparing catalyst suitable for oxidizing ethylene with molecular oxygen to ethylene oxide which comprises the production of a solution of a silver salt of a neo-acid having 7 or more carbon atoms followed impregnation of a porous support such as herein described with said solution and activation of the impregnated support by heating for a predetermined period of time to produce the desired catalyst, characterised by the single step of reactively mixing at least a stoichiometric amount of a silver compound with a unit amount of said neo-acid in the presence of a solvent such as herein described which is other than water at the boiling temperature of said mixture and under a pressure in the range of 0.01 to 0.08 bar until at least 90% of said neo-acid reacts with said silver compound to produce said solution of silver salt of neo-acid.

(Compl. Specn. 21 pages.)

Ind. Cl. : 140 A<sub>2</sub> X 1(2). 172633.Int. Cl.<sup>4</sup> : B01F 17/28.**A PROCESS FOR MAKING A CARBOXYLIC SALT SUITABLE FOR THE PREPARATION OF A WATER-BASED FUNCTIONAL FLUID COMPOSITION.**

Applicant : THE LUBRIZOL CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA, OF 29400 LAKELAND BOULEVARD, WICKLIFFE, OHIO 44092 UNITED STATES OF AMERICA.

Inventor : JOHN WESLEY FORSBERG.

Application for Patent No. 481/Del/87 filed on 4 June 1987.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**Claims 20**

A process for making a carboxylic salt suitable for the preparation of a water-based functional fluid composition, said process comprising the step of reacting component (a) with component (b) under conventional salt-forming conditions to form the required salt, wherein said component (a) comprising at least one hydrocarbyl substituted carboxylic acid or anhydride, the hydrocarbyl substituent of said acid or anhydride having an average of from 12 to 500 carbon atoms, and said component (b) comprising at least one amine, alkali or alkaline earth metal, or alkali or alkaline earth metal compound; with the proviso that :

said component (b) is other than an N-(hydroxyl-substituted hydrocarbyl) amine and/or hydroxyl-substituted poly(hydrocarboxyloxy) analog of said N-(hydroxyl-substituted hydrocarbyl) amine.

(Compl. Specn. 73 pages)

Drags. 2 sheets)

Ind. Cl. : 117 C LXIV (5).

172634

Int. Cl. : E 05 B 27/00, 27/08.

#### CYLINDER LOCK.

Applicant : WIDEN INNOVATION AB, A SWEDISH COMPANY, OF P.O. BOX 37, S-644 00 TORSHALLA, SWEDEN.

Inventor : BO WIDEN.

Application for Patent No. 600/Del/87 filed on 15-7-87.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

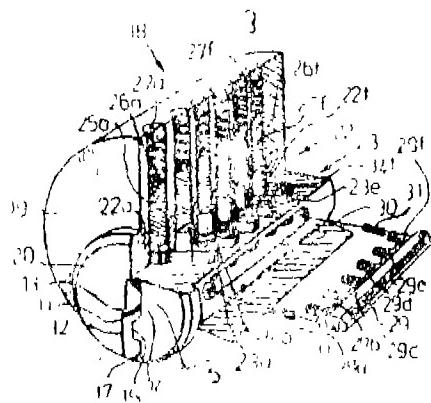
#### 13 Claims

A cylinder lock (18) comprising :

a cylinder shell (19);  
a key plug (20) rotationally mounted in said cylinder shell (19) to provide a line of close contact (21) between said cylinder shell and said key plug;

a key slot (11) extending into said key plug (20) parallel to a rotational axis of said key plug for receiving a key blade (1); at least one locking tumbler (23a-23e) having an elongated body portion (23ab-23eb) guided in a transverse cavity (33a-33e) which corresponds to said elongated body portion (23ab-23eb) and provided in said key plug (20), said elongated body portion rotationally moveable about its longitudinal axis (B); and a fence member or side bar (29) located so as to block said locking tumbler (23a-23e) and be displaced by rotational positioning of said locking tumbler by a properly shaped key blade, said fence member in said displaced position clearing the line of close contact between said cylinder shell and said key plug;

characterized in that said at least one locking tumbler (23a-23e) is further provided with a finger (23af-23ef), which projects transversely outwardly from said longitudinal axis of said elongated body portion (23ab-23eb), said elongated body portion being cylindrical and guided in a bore (33a-33e) corresponding to said cylindrical body portion, said finger (23af-23ef) projecting into said key slot (11) to enable engagement with said key blade (1) and consequent rotational positioning of the finger and elongated body portion of the locking tumbler about said axis (B) inserting said key.



(Compl. Specn. 21 pages)

Drgs. 4 sheets)

Ind. Cl. : 84 C<sub>1</sub>.

172635

Int. Cl. : C 10 B 3/02.

#### COKING APPARATUS.

Applicant : BERGWERKSVERBAND GmbH., A GERMAN COMPANY, OF FRANZ-FISCHER-WEB 61, 4300 ESSEN 13, WEST GERMANY.

Inventors : GERM NASHAN, KLAUS WESSIEPE, HERIBERT BERTLING, WOLFGANG ROHDE, MANFRED BLASE, MANFRED GALOW, ULRICH KOCHANSKI, HEINZ DURSELEN, JOHANNES JANICKA, DIETER STALHERM, JACOIM HOITZ, JURGEN TIETZE AND RALF SCHUMACHER.

Application for Patent No. 1086/Del/87 filed on 16th Dec. 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 5 Claims

Coking apparatus functioning on the batch-wise feeding of coking blends, preferably on a hardcoal base, to a reactor which is heated indirectly by heat recovery in regenerators or recuperators, comprising :

high-capacity reactors (100) united to form a reactor block, each said reactor comprising a reactor chamber (1) and two rigid lateral walls (2), flue walls (3) disposed within and delimiting the said reactor chamber, said flue walls having a planeparallel configuration, rigidly supported by the said lateral walls and comprising an array of vertical flues (4a, 4b) with separate control and/or adjusting elements (19) therefore, and regenerators or recuperators (R) for indirect heating by heat recovery, said lateral walls (2) of the reactors are interconnected and said regenerators or recuperators are located beneath the flue walls (3) and/or the reactor chambers.

(Comp. Specn. 17 pages)

Drgs. 8 sheets)

172636

Ind. Cl. : 32 B.

Int. Cl. : C 10 G 9/28.

#### PROCESS OF THERMALLY CRACKING HYDROCARBONS USING PARTICULATE SOLIDS AS HEAT CARRIER.

Applicant : EXXON RESEARCH AND ENGINEERING COMPANY, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE UNITED STATES OF AMERICA, OF P.O. BOX 390, FLORHAM PARK, NEW JERSEY 07932, UNITED STATES OF AMERICA.

Inventors : JOHN BOTELER YOURTEE & JOHN MORRIS MATSEN.

Application for Patent No. 1135/Del/87 filed on 28th Dec., 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 7 Claims

A process for thermally cracking hydrocarbon such as herein described to produce lighter products such as ethylene whereina hydrocarbon feed gas which may contain some liquid is contacted with hot particulate solids of the kind such as herein described in a reactor, said process comprising introducing said particulate solids at low velocity as herein described into contact with the feed gas at substantially higher velocity to entrain the solids in the gas and thereby transferring the heat from solids to feed and crack the same, allowing the solids to accelerate in passing through the reactor and terminating the reaction in a manner such as herein described substantially before the solids attain the velocity of the product gas in order to separate said solids from the gases products and quenching the gases products in a manner such as herein described.

(Compl. Specn. 41 pages)

Drg. 1 sheet)

Ind. Cl. : 206 E. [LXII].

172637

Int. Cl. : G 06 F 7/00, 15/00.

## COMPUTER SYSTEM.

Applicant(s) : INTERNATIONAL BUSINESS MACHINES CORPORATION, A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA, OF ARMONK, NEW YORK 10504, UNITED STATES OF AMERICA.

Inventors : IAN ANTHONY CONCILIO, CHESTAR ASBURY, JEFFREY ALAN HAWTHORNE, GEORGE EDUARDO LENTA AND LONG DUY NGUVEN.

Application for Patent No 179/Del/88 filed on 09 Mar 1988.

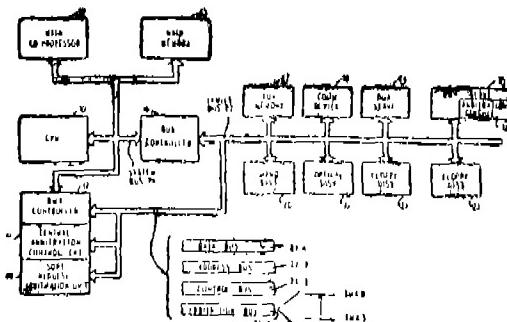
Convention Date 10-12-1987/8728921/U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 6 Claims

A computer system comprising a central processor unit, a direct memory access controller, a system bus for coupling said central processor unit and said direct memory access controller, a central arbitration control circuit, and a family bus for coupling a plurality of peripheral devices to said direct memory access controller, to said system bus, and to said central arbitration control circuit, characterised in that first peripheral devices each of which has an internal arbitration circuit are coupled to said central arbitration control circuit for determining access by source of the first peripheral devices to a single direct memory access channel in accordance with arbitration data from said internal arbitration circuits, and that second peripheral devices which have no internal arbitration circuits are coupled to a soft request arbitration unit which receives arbitration data related to the second peripheral devices from the central processor unit for determining access by the source of the second peripheral devices to a second single direct memory access channel.

Fig. 1



(Compl. Specn. 15 pages.)

Drgs. 7 sheets)

Ind. Cl. : 143 D<sub>1</sub>

172638

Int. Cl. : H 05 K 5/02.

A CONTAINER FOR LOOSELY HOUSING ONE OR A SERIES OF ELECTRICAL COMPONENTS.

Applicant : YEN WEI HSIUNG, A TAIWANESE CITIGEN OF 8 CHIA PING ROAD, JURONG TOWN, # 01-01 TO # 01-08, SINGAPORE 2261.

Inventor: YEN WEI HSIUNG.

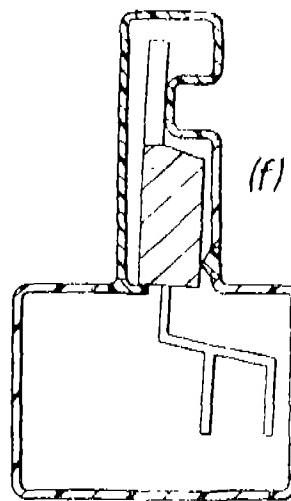
Application for Patent No. 447/Del/1988 filed on 20-05-1988.

Convention date 26-05-1987/8712338/U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 7 Claims

A container for loosely housing one or a series of electrical components having a row of terminal pins protruding in substantially the same direction from a single side of the component body, said container comprising an elongate tubular member having a first hollow component body receiving compartment and a second hollow terminal pin receiving compartment, said first and second compartments of said tubular member having conductive portions which are contacted by said electrical component where housed in said tubular member and non-conductive portions which are not contacted by said component, said conductive portions being electrically interconnected.



(Compl. Specn. 13 pages)

Drgs. 07 sheets)

Ind. Cl. : 101 B.

172639.

Int. Cl. : E 02 B 3/00.

APPARATUS FOR THE COMBATING MARINE GROWTH ON OFFSHORE MARINE STRUCTURES.

Applicant(s) : IEV INTERNATIONAL PTY. LIMITED, A COMPANY INCORPORATED UNDER THE LAWS OF THE STATE OF NEW SOUTH WALES, OF 8TH FLOOR, 35 SPRING STREET, BONDI JUNCTION, NEW SOUTH WALES 2022, AUSTRALIA.

Inventor : CHRISTOPHER NGHIA DO.

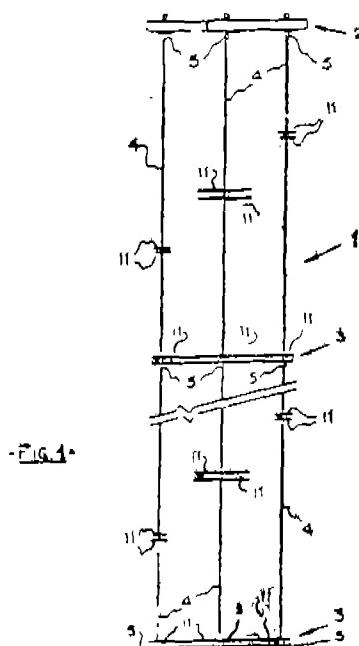
Application for Patent No. 461/Del/88 filed on 24 May 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 10 Claims

Apparatus for combating marine growth on offshore marine structures, said apparatus (1) surrounding a submerged structural support member of a said offshore marine structure for scraping marine growth therefrom and/or preventing marine growth from establishing or re-establishing thereon, said apparatus being powered by the utilisation of ocean forces in the form of waves, swells, tides and currents, said apparatus comprising a plurality of flexible marine growth combating collars (2,3) connected together in spaced-apart array

by means of linking members (4) disposed substantially parallel to a said structural support member to thereby remove fouling marine growth therefrom, or prevent growth or re-growth of fouling marine organisms thereon.



(Compl. Specn. 15 pages)

Drgs. 6 Sheets)

Ind. Cl. : 39L (III).

172640

Int. Cl<sup>4</sup> : Colg 3/02.**PROCESS FOR PRODUCING SUPERCONDUCTING OXIDE MATERIAL.**

Applicant : INSTITUTE TSRUKTURNOI MAKROKINETIKI AKADEMII NAUK USSR, OF P/O CHERNOGOLOVKA, MOASKOVSKAYA, OBLAST, USSR.

Inventors : ALEXANDR GRIGORIEVICH MERZHANOV, INNA PETROVNA BOROVINSKAYA, MIKAEL DAVDOVICH NERSESIAN, ANDREI GENNADIEVICH PERESADA.

Application for Patent No. 466/Del/88 filed 25 May 1988.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

**18 Claims**

A process for producing a superconducting oxide material which comprises mixing in their stoichiometric ratio a non-combustible ingredient with a combustible ingredient to produce an exothermal mixture, said non-combustible ingredient being selected from the group consisting of one or more of an oxide, halide, nitrate, carbonate, oxalate of a rare-earth metal of the periodic system selected from scandium, yttrium, lanthanides or mixtures thereof; or an oxide, peroxide, carbonate, nitrate, halide of a metal of Group I of the periodic system; or an oxide, peroxide, nitrate or halide of a metal of group II of the periodic system.

said combustible ingredient being one or more metal selected from the group consisting of;

said rare-earth metal of the periodic system; a metal of Group I of the periodic system; a metal of group II of the periodic system; and/or hydride of at least one metal selected from the said rare-earth metal of the periodic system; and

a metal of Group II of the periodic system, subjecting said exothermal mixture to combustion by igniting it in the presence of an oxygen-containing medium with an excess of an oxidizing agent of the kind such as hereinbefore described and maintaining the excess of the oxidizing agent till completion of the reaction to produce said superconducting oxide material.

(Compl. Specn. 27 Pages)

Ind. Cl. : 40 F [IV(1)]

172641

Int. Cl<sup>4</sup> : B 01 D, 3/40.**"PROCESS FOR SEPARATING ETHYLENE OXIDE FROM IMPURE ETHYLENE OXIDE CONTAINING FORMALDEHYDE AND/OR ACETALDEHYDE AS IMPURITIES, AND WATER".**

Applicant : AFOCHEM A FRENCH BODY CORPORATION OF LA DEFENSE 10 4 & 8 COURS MICHELET 92800 PUTEAUX FRANCE.

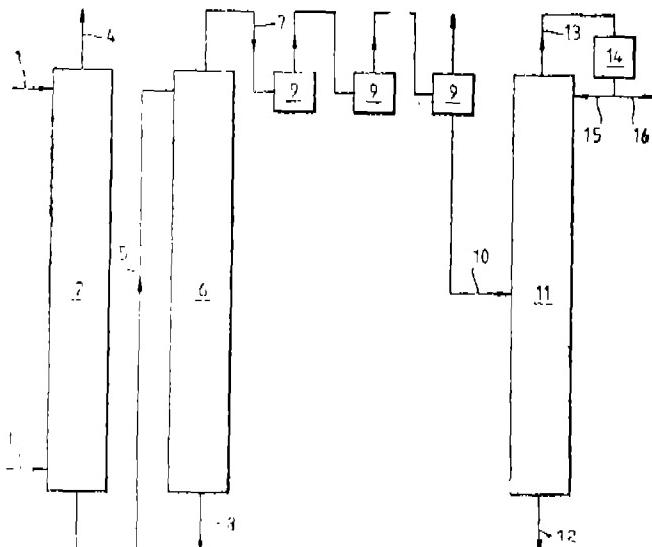
Inventors : 1. FRANCIS DELANNOY,  
2. GERARD LETRAY.

Application No. 900/Mas/88 filed on 20th December 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

**9 Claims**

Process for separating ethylene oxide from impure ethylene oxide containing at least 80% ethylene oxide, with formaldehyde and/or acetaldehyde as impurities and water, by distillation in a column with reflux wherein the aid distillation is carried out under such conditions that in the liquid stream which leaves the bottom of the column the weight ratio of ethylene oxide to that of water is from 0.15 : 1 to 3:1 while the ethylene oxide resulting from the separation from formaldehyde and from acetaldehyde leaves at the top of the column; the column operating at an average absolute pressure of 2.5 to 5 bars and the temperature at the bottom of the column is from 40°C to 60°C.



(Compl. Specn. 21 pages;

Drg. 1 sheet)

Ind. Cl. 187 H [LXI(2)]

172642

Int. Cl. : H 04 M 1/78.

**A TRANSMISSION SYSTEM FOR PICTURE PHONE.**

Applicants : KABUSHIKI KAISHA MYKOMU, OF KITA-4JO-NISHI 4-CHOME, CHUO-KU, SAPPORO-SHI, HOKKAIDO, JAPAN, A JOINT-STOCK COMPANY.

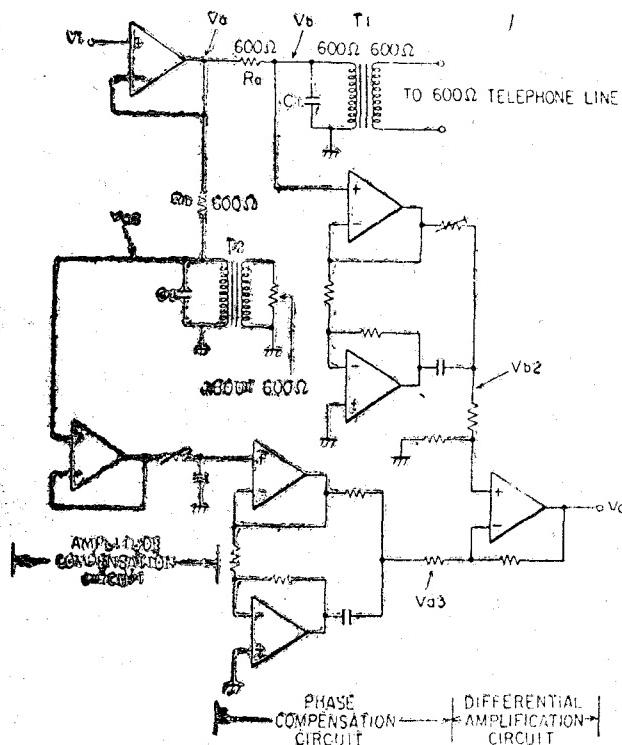
Inventor : KIYOSHI KURODA.

Application No. 886/Mas/88 filed on 14th December, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

**6 Claims**

A transmission system for picture phone comprising at least two terminal devices interconnected via one or more transmission lines through crosstalk cancelling circuits provided with each said terminal devices, a frequency division system for multiplying at least one of the signals from sound signal and image data signal for transmitting image transmission signal and voice transmission signal simultaneously and bi-directionally using a single side band system with enhanced transmission speed and tone quality.



(Compl. Specn. 23 pages)

Drgs. 11 sheets)

Ind. Cl. : 127 I [LXV(1)]

172643

Int. Cl. : B 62 D 55/08.

**A PIVOT ASSEMBLY.**

Applicants : CATERPILLAR INC., OF 100 N E ADAMS STREET, PEORIA, ILLINOIS 61629-6490, U.S.A. A CORPORATION DULY ORGANISED AND INCORPORATED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A.

Inventors : DRYAN GERARD LAMMERS, CHARLES FREDERICK STECK.

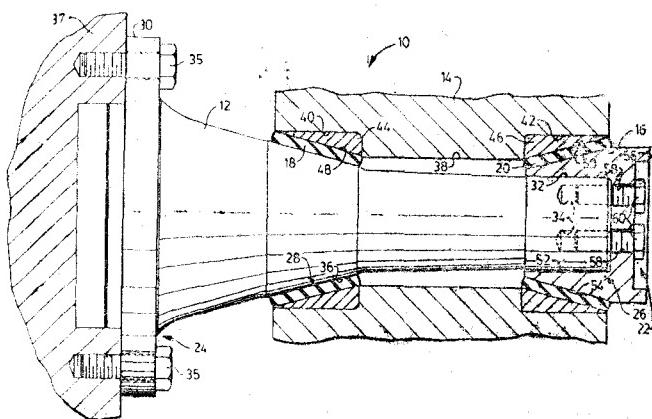
Application No. 4/Mas/89 filed on 3rd January, 1989.

Convention dated 3rd January, 1988; No. 573,743 (Canada):

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

**9 Claims**

A pivot assembly comprising : a shaft member having a mounting portion, a frustoconical bearing receiving surface, and an end cap receiving portion; a frame member having a through bore, and first and second bearing receiving surfaces shaped complimentary to said frustoconical surface within said bore, said bore being adapted to receive said shaft member; an end cap having a cavity and a bearing receiving surface, said cavity adapted to receive said end cap receiving portion; two elastomeric bearings, one of the said elastomeric bearing positioned between said bearing receiving surface of said shaft member and said first bearing receiving surface of said frame member, and the other said elastomeric bearing positioned between said bearing receiving surface of said end cap and said second bearing receiving surface of said frame member; and means for securing said end cap to said end cap receiving portion of said shaft member, and for securing said frame to said shaft member, said elastomeric bearings being compressed when said frame and shaft members are secured together.



(Compl. specn. 13 pages)

Drgs. 2 sheets)

Ind. Cl. : 98 H [VII (2)]

172644

Int. Cl. : H 01 L—35/04.

**"A THERMOCAUPLE".**

Applicant : TEMPRA THERM (PTY) LIMITED A SOUTH AFRICAN COMPANY OF 24 RUDOLPH STREET SUNDERLAND RIDGE VERWOERDBURG SOUTH AFRICA.

Inventor : ADRIAN LIONEL GRAY.

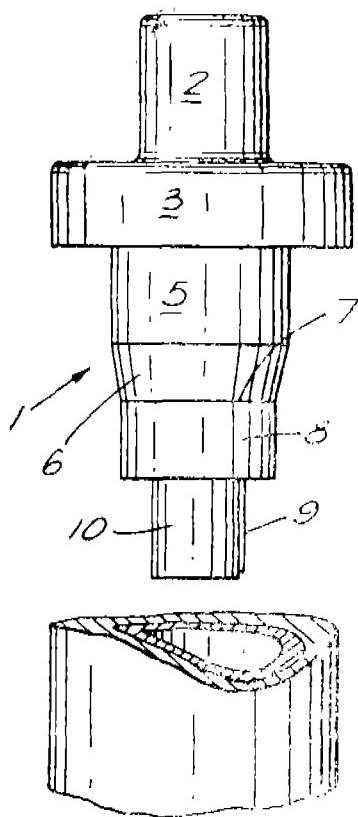
Application No. 97/Mas/89 filed on 6th February 1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

**10 Claims**

A thermocouple (1) comprising a bimetal junction (18) located in a closed outer end of a length of quartz glass tube (21) with the separated free ends of junction wires (19,20) connected to the compensating conductors (9,17) of the thermocouple, characterized in that said compensating conductors (9,17) are connected to a plug (8) of thermoplastic synthetic plastics material inserted into the open opposite end

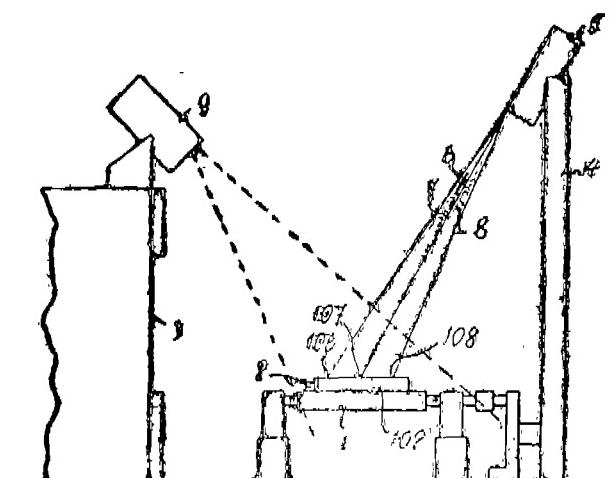
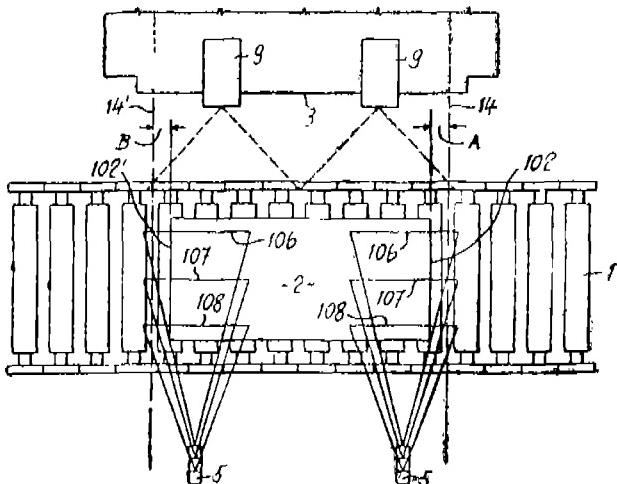
of the tube (21), and that the said separated free ends of said junction wires (19,20) project from said open opposite end of the tube (21) around said plug (8) and are firmly embedded in and/or held in contact with the latter.



(Comp. specn. 15 pages

Drgs. 2 sheets)

two telecameras (9) directed towards the roller-path (1) and arranged above the furnace-mouth (3), each of which is associated with one of the sides of said furnace-mouth (3) and is connected to a display monitor (10), while said microprocessor (11) is connected both to the monitors (10) and to a programmable-logic electronic control unit 12, for generating control signals for the roller-path (1).



(Compl. Specn. 16 pages

Drgs. 4 sheets)

Ind. Cl. : 85 J, 105 C [XXXI], [XLI(7)] 172645

Int. Cl. : F 27 D 23/00; G 05 B 19/00

#### AN APPARATUS FOR THE POSITIONING OF METAL SLABS INTO A FURNACE.

Applicants : ITALIMPIANTI SOCIETA ITALIANA IMPIANTI P. A. OF PIAZZA PICCAPIETRA 9, I-16121 GENOVA, ITALY, ITALIAN COMPANY.

Inventors : BRUNO MEINI, ALLESSANDRO FABBRINI GIOVANNI SCARSI.

Application No. 209/Mas/89 filed on 17th March 1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

#### 5 Claims

An apparatus for the positioning of metal slabs (2) into a furnace comprising a roller-path (1) or the like for feeding the slabs (2) to the furnace-mouth (3), said roller-path being arranged normally to the direction of entrance and advance into the furnace, and with a plurality of sources of light (5) directed towards said slabs in the region opposite the furnace-mouth (3), as well as with telecameras (9) directed towards the region opposite the furnace-mouth (3) and connected to display monitors (10), and with a microprocessor (11) connected to the monitors (10), wherein at least two sources of light (5) arranged on the side of the roller-path (1) away from the furnace-mouth (3) and each projecting at least two blades of light (6, 7, 8) on said slab which are normal to the direction of entrance and advance into the furnace, into an associated lateral region of the furnace-mouth (3), and at least

Ind. Cl. : 195 B, D [XXIX(3)] & 107 G [XLVI(2)], 172646

Int. Cl. : F 16 K 7/00

#### A DUEL-FUEL PRESSURE REGULATOR FOR THE FEED SYSTEM OF AN INTERNAL COMBUSTION ENGINE.

Applicant & Inventor : EDOUARD TOUILLET OF SAUTONNE MARTAIZE 86330 Saint-Jean-de-Sauves, France, a French citizen.

Application No. 250/Mas/89 filed on 29th March, 1989.

Appropriate office for the opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 11 Claims

A dual-fuel pressure regulator comprising :  
first and second main chambers separated by a deformable first wall portion;

first and second secondary chambers each sharing a common second wall portion with a respective one of said first

and second main chambers outside said wall portion constituted by said deformable first wall portion;

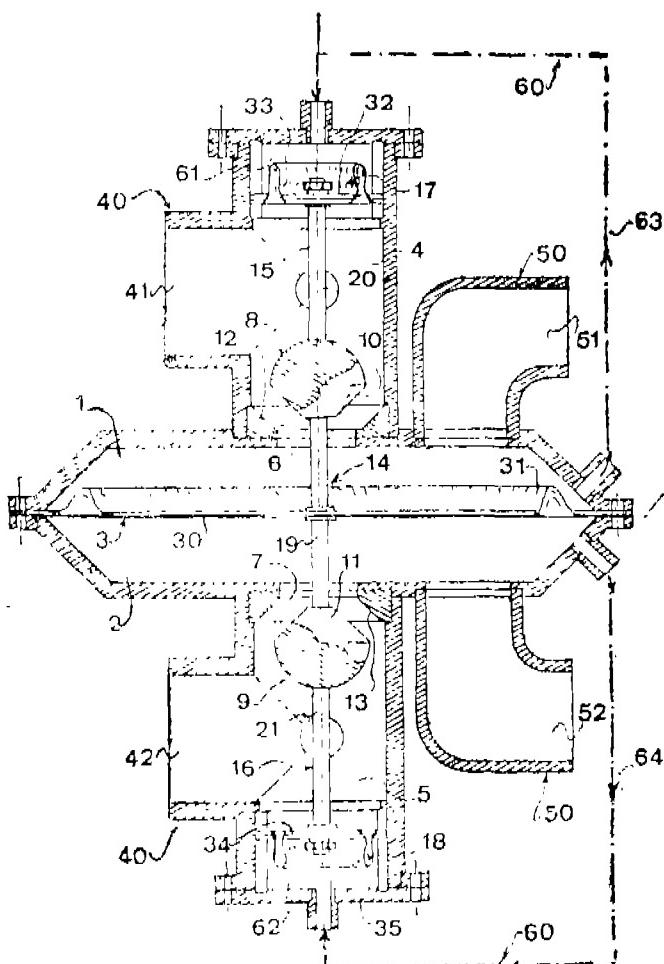
two valves defined in respective ones of said second wall portions, with each valve being constituted by a seat and a valve member suitable for co-operating with said seat;

first coupling means coupling said two valve members to each other and to said deformable first wall portion;

feed means for feeding the two fluids into respective ones of the two secondary chambers;

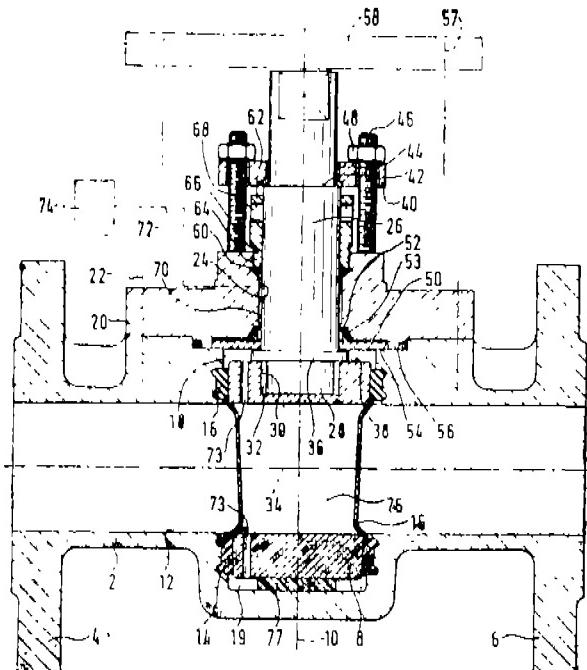
outlet duct means from said two main chambers for each of the two fluids respectively;

wherein the first and second secondary chambers include respective deformable third and fourth wall portions situated outside second wall portions said deformable third and fourth wall portions being equal in area, and that it also includes second coupling means coupling said deformable third and fourth wall portions to said first coupling means, and means for applying the pressure of the fluid contained in the first and second main chambers to said deformable third and fourth wall portions, respectively.



## 16 Claims

A shutoff and regulating valve comprising a rotatable stem; a shutoff element in the form of a stopcock mounted on said stem to rotate therewith; a housing in which said shutoff element is arranged; a housing cover through which said stem extends; a first sealing element for sealing said stem where it extends through said housing cover; a second sealing element arranged on the surface of said cover, and an annular disk for supporting said first sealing element on the underside of said cover.



Ind. Cl. 206E

172652

Int. Cl.<sup>4</sup>: H03F 3/00.

## LINEARIZED DIFFERENTIAL AMPLIFIER.

Applicant(s) : MOTOROLA, INC., A CORPORATION OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 1303 EAST ALONGONQUIN ROAD, SCHAUMBURG, ILLINOIS 60196, UNITED STATES OF AMERICA.

Inventor(s) : LAWRENCE MARVIN ECKLUND and CHARLES JAMES MARIK.

Application for Patent No. 366/Del/88 filed on 27 Apr 1988.

Appropriate office for opposition proceedings (Rule 4, Patent's Rules, 1972) Patent Office Branch, New Delhi-110 005

(Claims 7)

A linearized differential amplifier (10) comprising a differential amplifier (11, 12).

input (19) means connected to the differential amplifier for providing an input signal;

reference (2, 3) means connected to the differential amplifier for providing a reference signal;

output means connected (102) to the differential amplifier for providing an output signal substantially related to a difference between said input signal and said reference signal;

first feedback means (21, 24) coupled between;

said differential amplifier and said input means; and

said differential amplifier and said reference means;

for substantially linearizing said output signal with respect to said input signal within a first operating range; and

second feedback means coupled between;

said differential amplifier and said input means; and

said differential amplifier and said reference means;

for restricting said first operating range to a second operating range that is at least slightly smaller than said first operating range.

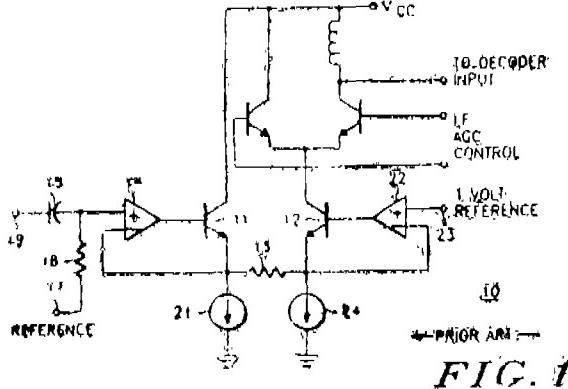


FIG. 1

(Complete specification 11 pages drawing sheets 2)

Ind. Cl. 40B

172653

Int. Cl.<sup>4</sup>: B01J 29/18.

## PROCESS FOR THE PREPARATION OF HIGH SILICA, LARGE PORT MORDENITES.

Applicant(s) : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIAN, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor(s) : ASHA JEEVAN CHANDWADKAR AND PAUL RATNASAMY.

Application for Patent No. 367/Del/88 filed on 27 Apr 1988.

Appropriate office for opposition proceedings (Rule 4, Patent's Rules, 1972) Patent Office Branch, New Delhi-110 005

(Claims 7)

A process for the preparation of a high silica, large port mordenites the said mordenite being characterised by the X-ray diffraction pattern of the kind such as herein described and being represented in terms of mole ratios of oxides by the formula  $R_2O : M_2O : Al_2O_3 : (15-60) SiO_2 : ZH_2O$  wherein R is tetraethyl ammonium, M is an alkali metal and Z is between 7-10 which comprises forming a reaction mixture by mixing water, tetraethyl ammonium bromide, a source of alkali such as sodium hydroxide, a source of alumina such as herein described and maintaining the said reaction mixture at a temperature of between 100 and 200°C for a period of 10-100 hrs. to provide the said mordenite, separating the mordenite washing, drying and cleaning the mordenite at a temperature in the range of 400-480°C.

(Complete specification 18 pages).

Ind. Cl. : 168C

172654

Int. Cl.<sup>4</sup>: E01F 13/00.

## ANTI-INTRUSION BARRIER FOR STOPPING AN UNAUTHORIZED LAND VEHICLE FROM CROSSING-OVER TO A GIVEN ZONE.

Applicant : GERARD MATHE, A FRENCH CITIZEN OF 146, RUE STEHELIN, F-BORDEAUX, FRANCE.

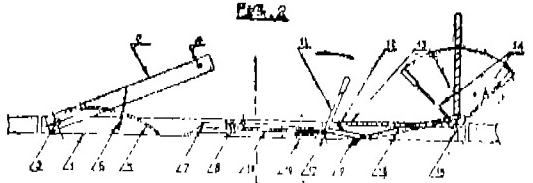
Inventor : GERARD MOTHE.

Application for Patent No. 385/Del/1988 filed on 3-5-1988.

Appropriate office for opposition proceedings (Rule 4, Patent's Rules, 1972) Patent Office Branch, New Delhi-110 005

(Claims 5)

An anti-intrusion barrier for stopping an unauthorized land vehicle from crossing over to a given zone said barrier comprising a rectangular shaped self-supporting frame (1) having a stop-barrier (2) connecting at one end of said frame (1) and an access-control barrier (13) upstream of said stop-barrier (2), said control barrier (13) being connected to the other end of said frame (1), a mechanical release linkage (9, 11, 17, 18) located between said barriers to connect said stop barrier and said access control barrier.



(Complete specification 08 pages) (drawing 01 sheet).

Ind. Cl. : 179D.

172655

Int. Cl.<sup>4</sup>: F16J 15/16.

## TITLE : A SEALING LINER FOR A CLOSURE MEANS.

Applicant : APPLICATIONS MECANIQUES ET ROBINETTERIE INDUSTRIELLE (A.M.R.I.), A FRENCH CORPORATION, OF "LAS MERCURIALES", 40, RUE JEAN JAURES, 93176 BAGNOLET CEDEX, FRANCE.

Inventors : JEAN CLAUDE GARRIGUES.  
RENE LAULHE.  
PIERRE RIEUVERNET.

Application for Patent No. 388/Del/1988 filed on 4-5-1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005

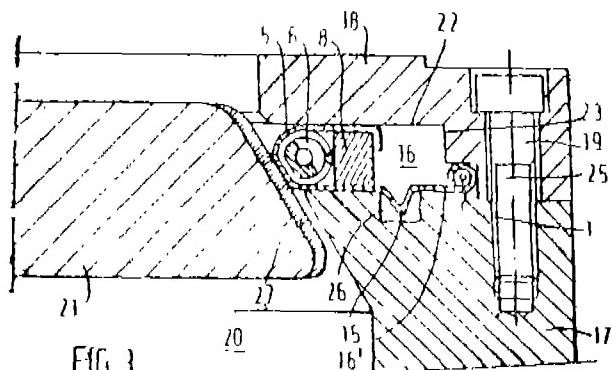
## (Claims 12)

A sealing liner for a closure means for providing sealing upstream/downstream of the closure means, said closure means comprising a closure member (21) movable inside a tubular body (17, 18) said liner comprising:

— two circular substantially concentric sealing elements, namely; a first element (1, 2, 3) providing static sealing and a second element (4, 5, 6) having, on the side opposite the first element (1), a circular sealing surface (11) for cooperating with a circular sealing face in order to provide dynamic sealing;

— a resiliently deformable membrane (14) connecting said elements (1 to 6) sealingly together, and

— a reaction ring (8) applied against the second sealing element (5, 6) opposite said sealing surface (11) to achieve a radially movable assembly distant from the first sealing element (1, 2, 3) characterized in that said second sealing element (4) is provided with a cover (5) forming an annular housing a circular portion of which forms said sealing surface, said housing containing, on the one hand, an annular resiliently deformable bed (6, 7) for acting on said sealing surface (11), and on the other hand, the reaction ring (8) held applied against said bed (7), and in that said housing has two opposite walls (9, 10) so as to provide permanent centering of said bed (7) and said ring (8).



(Complete Specification 16 pages) (drawings 02 sheets).

Ind. Cl. : 170B & D.

172656

Int. Cl. : C10L 1/10 1/16 1/22.  
C10M 141/00 169/00.

#### A PROCESS FOR PRODUCING DISPERSANT-DETERGENT ADDITIVES.

Applicant : EXXON CHEMICAL PATENTS, INC., a corporation organised and existing under the laws of the State of Delaware, United States of America, of 1900 East Linden Avenue, Linden, New Jersey 07036, United States of America.

Inventors : MALCOLM WADDOUPS.  
BARRY JOHN HOWLETT.

Application for Patent No. 391/Del/1988 filed on 4-5-1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005

## (Claims 8)

A process for producing dispersant-detergent additives having improved haze-resistance for use with oleaginous compositions such as herein described which comprises;

(a) contacting a mixture comprising a lubricating oil, an ashless dispersant and a metal detergent such as herein described at a temperature of from 100°C to 160°C for a time of from 1 to 10 hours in the substantial absence of air to form a heat-treated dispersant-detergent-lubricating oil mixture;

(b) cooling said heat-treated mixture to a temperature of no greater than about 85°C to form a cooled dispersant-detergent-lubricating oil concentrate;

(c) admixing said cooled dispersant-detergent-lubricating oil concentrate with at least one additive selected from the group consisting of copper antioxidant additives and zinc alkyl dithiophosphate anti-wear additives to form an additive of improved haze-resistance properties, said ashless dispersant comprising a member selected from the group consisting of nitrogen or ester containing dispersants selected from the group consisting of (i) oil soluble salts, amides, imides, nitriles and esters such as herein described or mixtures thereof, of long chain hydrocarbon substituted mono- to carboxylic acids or their anhydrides; (ii) long chain aliphatic hydrocarbon having a polyamine attached directly thereto; and (iii) Mannich condensation products a long chain substituted phenol, 1 to 2.5 moles of formaldehyde and 0.5 to 2 moles of polyalkylene polyamine; wherein said long chain hydrocarbon group in (i), (ii) and (iii) is a polymer of a C<sub>2</sub> to C<sub>10</sub> mono-olefin, said polymer having an average molecular weight of at least about 1300.

(Complete specification 60 pages) (drawings 03 sheets).

Ind. Cl. : 180

172657

Int. Cl. : F 24 C 5/00 5/18

#### A STOVE.

Applicant : KAMESHWAR NATH MALLIK, AN INDIAN NATIONAL OF 4/23A, VIKRAM VIHAR, LAJPAT NAGAR-IV, NEW DELHI-110 024.

Inventor : KAMESHWAR NATH MALLIK.

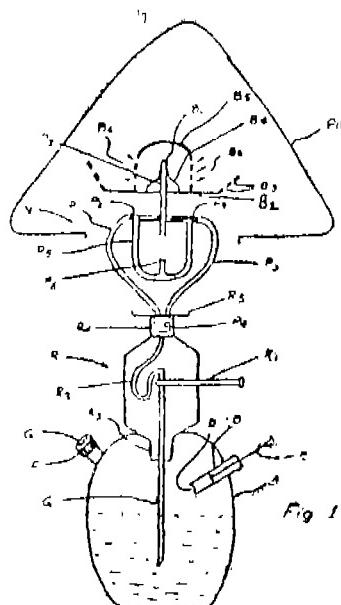
Application for Patent No. 394/Del/1988 filed on 05 May 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

## 9 Claims

A stove comprising a tank or cylinder for storage of a fuel, a pump for increasing the pressure within said cylinder to allow a flow of a fuel in a liquiduous state to a regulator assembly, characterized in that a regulator assembly consisting of a pipe having a regulator spindle therewith and being extended into a tortuous path so as to form a bend pipe connected to said cylinder, a burner assembly consisting of an inlet pipe extended through a burner plate

having a cup surrounding said pipe, a hood provided above said cup and supported on said burner plate, said inlet pipe connected to said regulator assembly through a vaporizer.



Ind. Cl. : 40 F [IV(1)]

172660

Int. Cl. : B 01 J 8/24

A FLUIDIZED BED APPARATUS AND A PROCESS FOR POLYMERIZING AT LEAST ONE ETHYLENICALLY UNSATURATED MONIMER IN THE FLUIDIZED BED APPARATUS.

Applicant : BP CHEMICALS LIMITED, OF BELGRAVE HOUSE, 76 BUCKINGHAM PALACE ROAD, LONDON SW1W OSU, ENGLAND, A BRITISH COMPANY.

Inventors : JEAN ALAIN MAUREL, FEDERIC ROBERT MARIE MICHEL MORTEROL, CHARLES RAUFAST. 1988.

Application for Patent No. 556/Del/88 filed on 30 June 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

## 10 Claims

A fluidized bed apparatus for use such as polymerisation of ethylenically unsaturated monomers comprising a vessel (1) having the shape of an upright cylinder and a fluidization grid (2) spanning across the vessel along a transverse section of area S1 and dividing the interior of said vessel into an upper chamber portion for containing a fluidized bed and a lower gas entry chamber (3) which is closed by a bottom and into which opens at least one fluidizing gas delivery pipe (4), the apparatus being characterised in that a tuyere (5) is positioned in the gas entry chamber (3) to guide fluidizing gas interiorly thereof from the opening of the fluidizing gas delivery pipe (4) to the fluidization grid (2), the tuyere (5) comprising a widening pipe which increases in interior size the wider end (6) of which has an area S2 and is connected to the side wall of the gas entry chamber (3) beneath the fluidization grid (2) and the narrower end (7) of which is positioned in the gas entry chamber (3) farther from the fluidization grid (2) than the wider end (6) and has an area S3 which permits the free flow of gas from the opening of the fluidizing gas delivery pipe (4) through the said narrower end and hence through the interior of said tuyere to the fluidization grid (2) and wherein the area S2 is substantially the same as the area S1 and the ratio of the areas S2/S3 is from 2 to 30.

A process for polymerizing at least one ethylenically unsaturated monomer to produce polymers of ethylene in the fluidized bed apparatus as claimed in any one of claims 1 to 6, characterized in that it comprises :

(a) introducing a catalyst of the Ziegler-Natta type or comprising a chromium oxide compound supported on a refractory oxide into the upper chamber portion of the apparatus containing a fluidized bed consisting of a polyolefin powder, at a temperature from 0 to 115°C under a pressure from 0.5 to 5 MPa,

(b) withdrawing the polymer produced from the fluidized bed apparatus to maintain substantially constant the height of the fluidized bed, and

(c) introducing a fluidizing gas comprising the ethylenically unsaturated monomer(s) into the entry chamber (3) through at least one delivery pipe (4) and channelling by means of the tuyere (5) essentially into a single upward stream which enters the tuyere through the narrower end (7) with a velocity which is from 2 to 60 times the fluidization velocity in the fluidized bed and which leaves the wider end (6) of the tuyere at a reduced velocity which is from 1.5 to 3 times the fluidization velocity in the fluidization bed thereby obtaining the desired product.

Compl. Specn. 22 pages

Drgs. 2 Sheets

## CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT

The claim made by TEMPRA THERM (PTY) LTD, in connection with Patent Application No. 97/Mas/89 (172644) has been allowed.

## PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undenoted specification are available for sale from the Patent Office, Calcutta, and its branches at Bombay, Madras and Delhi at two rupees per copy :—

(1)

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## PATENT SEALED ON 01-10-1993

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170920\*D 170952\* 170956 170997 170999 171000\* 171007\*  
171013 171018 171026\* 171037\* 171076\*D 171765

Cal—05, Mas—01, Bom—11, &amp; Del—21

\*Patent shall be deemed to be endorsed with the words LICENCE OF RIGHT under Section 87 of the Patent Act, 1970 from the date of expiration of three years from the date of sealing.

D—DRUG PATENT, F—FOOD PATENT.

## NO PATENT

160009 164162 164176 164291 164671 164942 166010 166021  
166060 166094 166107 166146 166147 166192 166202 166222  
166227 166241 166249 166266 166274 166275 166277 166278  
166281 166303 166308 166323 166326 166335 166345 166346  
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1666594 166598 166601 166605 166614 166615 166632

REGISTRATION OF ASSIGNMENTS, LICENCES, ETC.  
(PATENTS)

Assignments, licences or other transaction affecting the interest of the original patentee have been registered in the following cases.

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152558  
152763  
152871  
154429  
156238  
156433  
157025  
157735  
159262  
159269  
160080

M/s. Lakshmi Machine Works Limited.

## AMENDMENT PROCEEDINGS UNDER SECTION 57

Notice is hereby given that Sumitomo Chemical Company a corporation organized under the laws of Japan, of 15 Kitahama 5-Chome, Higash -Ku, Osaka, Japan have made an application under Section 57 of the patents Act, 1970 for amendment of specification of their application for patent No.168916 for process for recovery of gallium by chelate resin.

The application for amendment and the proposed amendments can be inspected free of charge of Patent Office 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed Form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

#### RENEWAL FEES PAID

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 153749 153943 154229 154278 154445 154469 154802 154867  
 154901 154903 155483 155491 155697 156480 156523 156645  
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 163867 163898 163969 163996 164117 164329 164340 164644  
 164834 164866 165049 165202 165288 165413 165416 165429  
 165709 166410 166616 167076 167351 167380 167657 167728  
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 170726 170728 170772 170795

#### CESSATION OF PATENTS

158733 158772 158773 158801 158805 158817 158822 158834  
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 159207 159228 159229 159229 159232 159245 159265 159274  
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#### RESTORATION PROCEEDINGS

Notice is hereby given that an application for restoration of Patent No. 161638 dated the 15th May, 1985 made by Ruhrtal-Elektrizitätsgesellschaft Hartig GmbH & Co. on the 8th April, 1993 and notified in the Gazette of India, Part III, Section 2, dated the 19th June, 1993 has been allowed and the said patent restored.

Notice is hereby given that an application for restoration of Patent No. 165244 dated the 20th April, 1987 made by E.I. Du Pont De Nemours and company on the 15th March, 1993 and notified in the Gazette of India, Part III, Section 2, dated the 5th June, 1993 has been allowed and the said patent restored.

Notice is hereby given that an application for restoration of Patent No. 166972 dated the 5th May 1987 made by Ion Exchange (India) Limited on the 9th March, 1993 and notified in the Gazette of India, Part III, Section 2, dated the 5th June, 1993 has been allowed and the said patent restored.

Notice is hereby given that an application for restoration of Patent No. 167076 dated the 10th April, 1987 made by Westinghouse Electric Corporation on the 7th April, 1993 and notified in the Gazette of India, Part III, Section 2, dated the 19th June, 1993 has been allowed and the said patent restored.

#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the entries is the date of the registration of the design included in the entry.

Class 1. Nos. 165515 and 165516. Dr. Jose Thaikattil, Physician, University Health Centre, Calicut University P.O., Kerala, India, Indian. "Wick Lamp". April 13, 1993.

Class 3. No. 165364. Gauri Shankar & Raghuvir Singh, Indian of C-76, Gali No. 8, Braham Puri, Delhi-110053, India. "Children's Multipurpose Seat". February 17, 1993.

Class 3. No. 165386. Hindustan Lever Ltd. of 165/166, Backbay Reclamation, Bombay-400020, Maharashtra, India. "Bottle". February 26, 1993.

Class 3. No. 165572. Philippe Charriol of 66, Black's Link, Hong Kong, French citizen. "Writing implement". April 21, 1993.

R. A. AOHARYA,  
 Controller General of  
 Patents Designs and  
 Trade Marks